RICAN RA

AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY

Her performance has been entirely satisfactor

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doing duty regularly ex im CVA engines, in its



PUBLISHED WEEKLY, AT No. 105 CHESTNUT STREET, PHILADELPHIA, AT FIVE DOLLARS PER ANNUM.

SECOND QUARTO SERIES, Vol. III., No. 48.) SATURDAY, NOVEMBER 27, 1847. [WHOLE No. 507, Vol. XX.

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Correspondents will oblige us by sending in their numerications by Tuesday morning at latest.

PRINCIPAL CONTENTS.

Louisville and Frankfort, Ky., Railroad 75
New Inventions-of Old Instruments
Tide Water, Pa, Canal Trade
Ten Wheeled Locomotive Engines
Iron Bridges
Railway Breaks
South Carolina Railroad Report
Wilmington and Manchester, N.C.—or the Con- necting Link—Railroad
Gauge, or Width of Track for Railroads, 76

AMERICAN RAILROAD JOURNAL PUBLISHED AT 105 CHESTNUT ST, PHILADELPHIA.

Saturday, November 27, 1847.

A WORD TO THE FEW. A

The current volume of the Journal is nearly completed-four numbers more, and the Index, will complete the twentieth volume, and the fifteenth year of its publication. There are yet quite a number of be constructed, with grades and curves highly fa-accounts for the current year—as well as a few for vorable, and at a cost much within the average of to us the delay of one or two hundred is a very serious on the 9th of December, when will be decided the matter, and may even be the cause of discontinuing question of action, which we trust will be both the publication entirely.

to each subscriber-scattered, as they are, all over roads which will open an easy communication the Union-is to great to be encountered; and the from her sea-board—the Ohio-to the interior. The from removal, changes of circumstances and truth is, the people of Kentucky cannot afford to be death-when the accounts are suffered to run for se- without better means of transportation and travel, veral years—are to great for so small a circulation : therefore it has become a matter of necessity to call upon those in arrears to remit, the amount by mail at once-before the close of this volume, if possible; age, and be only a fair return for past delays, to enclose, at the same time, the next year's subscription. and I will add that it will save trouble and post-By doing so, they will materially promote our con-venience, and the prosperity of the Journal.

I shall hereafter, while the Journal is under my charge, give to it my undivided attention, and hope to be able to make it deserving of a prompt and liberal support, and I shall look to every friend of the cause for aid in sustaining it. D. K. MINOR, Editor

Carrection. In the Report of Mr. Morton, on the Gauge question—page 712, line 13 from top of first column—for "85," read 35 pounds less.

PASSENGER, FREIGHT AND CRANK CARS SNOW PLOUGHS AND ENGINE TENDERS

OF VARIOUS KINDS. CAR WHEELS and AXLES fitted and furnished at short notice; also, STEEL SPRINGS of various kinds; and SHAFTING FOR FACTURIES.

The above may be had at order at our Car Fuctory,

RECEL DEAN, ELIJAH PACKARD, SPRINGFIELD, MASS. ISAAC MILLS,

Louisville and Frankfort, Ky., Ratiroad. The surveys upon this line have, we are inform ed, been prosecuted with spirit and success for some months past, with good success. A very favorable route has been found, over which a railroad can vious years which are not paid. This delay to our eastern roads for graduation. A report is now criber cannot benefit the parties—while in preparation, to be submitted to the stockholders prompt and energetic; as the period has arrived The difficulty, and expense, of sending an agent when Kentucky owes it to herself to construct rail-

New Inventions of Old Instru

The following has been sent us by way of show ing that what has been long in use, and of much utility in this country, has been recently discovered

BLADE PROTRACTOR. (With an engraving, Plate XVI.) Registered by Mr. James Basire, Jun., of Red Laon Square." Civil Engineer and Architects Journal, page 310, London.

The above appears to have been entered for least on the August 1847

patent on 4th August, 1847, as an original invention of Mr. Basire of London, but most of the civil engineers of the United States are familiar with it. The writer of this recognizes it as an acquaintance of long standing, he certainly saw one in 1835. There was not a single barrel of flour of since which he has seen it as an instrument of every of wheat in any of these boats. The cropiday life, in every Engineer's office that he has in the interior of the state is very light as

visited in the state of New York. Mr. Whipple, of Utica, N. Y., invented it about 1833
34, and has since that time improved apout though I believe it never has been patential in it country. Probably the improvement will be ented, in a few years, in England, and cut off Mr. Basire's, unless he happen to be the fortunate man to discover it. Yours Shady Side, November 18th, 1847. Yours,

one Schwylkill Coal Trade liscois PHILADELPHIA AND BEADING RAILEDAN— of coal transported during the week ending lay, November 18, 1817.

	From Port Carbon
	Port Clinton
1	Previously this year1,201,566 16
	SCHUYLKILL NAVIGATION.—Week ending November 81, 1847.
	Pottsville and Port Carbon
	This week 9,749 91. Previously 911,895 06.

"On Tuesday last," says the Philadelp "On Tuesday last," says the Philadelphia mercial List, of Nov. 20, "the steamer Ki towed to this city THEATY-FOUR large canal b de Grace, laden with full cargoes. largest tow ever brought from Dela

Total. 144 12 20 1 200 1 20 221,644 07 4

The following articles composed the lar tion of their freight-iron being the me Pig fron. Ibs. 2150 1916 bem Railroad Iron Castings Lumber, feet Shingles Staves, and. No.

There was not a single barrel of flour or

oteror or grading from last Thus ness in a Classific and Dela, wheeled engine, of which the accompa-canal is steadily increasing. During the week an illustration. It has six driving ng November 10, at noon, there passed through is canal 970 tons of pysic s-also 77

Ten Wheeled Locomotive Engines.

In the early days of railways in England, a yard was a beavy raild over five tons, with water in its boiler, was excluded from the society of fellows on the Liverpool and Manchester road, d not allowed the honor of frauling his majesty, filling the IV at the trial of engines in Octor, 1825—but things have wonderfully changed ring the past eighteen years—what was then a tives, and locomorives that were then pushed but of good society because they were to heavy, are now discarded because they are to light. Rails of 50 to 30 lbs. to the yard are now preferred, and locomo-tives must weigh from 12 to 25 tons in order to come up at all to the spirit of the age. Formerly, we should as soon have looked for 6, or 8 legs upon a on as for that number of wheels upon a locomo-but such has been their rapid growth, and such eir enormous weight, that they now have six, and even ten wheels.

it is amusing, as well as instructive, to look back casionally, and compare the past and the pre-And we will compare a performance upon a whoming railroad, in July, 1832, with the regu-r working upon the Reading road in 1847. We give the following, from the Railroad Journal

of July 14, 1832. It is headed "Railroad Experi-

s and reads thus.

Resirond Experiments.—Extract from the report John Randel, Esq., Engineer in chief of the New, and Frenchtown railroad company's, to the Directors, dated Newcastle, July 4th, , selative to the performance of the locomotive Delaware.' This engine is one of Stephenson's the Booth's patent boiler, and this is the rt made with-herograpiya / J.HR.F

Testerday and to-day, says Mr. Randel, I phiodological at the phiodological at the phiodological and the phiodological at the phiodolog lown, and have the entiefaction of being able to bay it works well. . The large radii of our curves the least being 10,000 feet-will enable us to pass gh them without abating its velocity.

office, and we believe also at the Fair of the Frank-apart, to receive a inch diagonal bars between them. In the control of the straing of the steam office, and we believe also at the Fair of the Frank-apart, to receive a inch diagonal bars between them. In Institute, we are led to form a high opinion of These stringer bars are spliced so as to "break averaged, for the whole distance in going to his iron bridges, especially for railroads—and joints," and at each splicing is a plate 4x inch, therefore we give place to the following communication.

There are vertical struts of cast iron, about 3 wards of its miles an hour."

There are vertical struts of cast iron, about 3 wards of its miles an hour."

supplies are transported from this city to vari- be seen by the following statement in relation to the the Reading rail of is one of Do of which the a ilroad. The omotives on the red ten weighs 194 tons, with 144 tons on the drivers,

Mr. Nicolla speaks of it as follows, in a letter dated May 27th, 1847, in relation to inquities made as to its performance.

He says—"The 'Chesapeake' has been running for about two months, upon the Reading railroad, doing duty regularly with its other engines, in its

coal trade.

"Her performance has been entirely satisfactory.
She hauls more coal cars, in proportion to her adhesion, than any other engine on the road.

After five months further use, having passed of the road more than 130 times. Mr. Nicolla writer hesion, than any other engine on the road.

She follows, dated "Reading, Pa., October 29, 1847."

Passes through curves, of any radius, with as much "Messas. Norms, Browness, Philada. ease as any other engine we have. She is less injurious, in proportion to her gross weight, or to her 28th instant, in relation to your Chesapeake engine. adhesion, upon the rail, curves and bridges, than any "I have the pleasure of stating that the 'Chesangine hauling coal upon the Reading railroad; peake,' 10 wheel engine, built by you for this road, from which it follows, that the amount of coal has run since March last, some 13,000 miles, in the nauled by the Chesapeake, for any given period, coal trade of the road. risk of accidents to rail and bridges, than by any other engine we have, and has proved as safe in

follows, yiz:

The 8 wheel engines in common use weigh 221 ter of 27th May last, on same subject.

Very respectfully vours. tons, have 221 tons adhesion, and haul 413 tons

OF VARIOUS KINDS.
AR WHEELS and AXLES fixed and at short notice; also, STEEL SPRINGS SHAFTING FOR FACTURIES. 's Railroads ON to The above marrie had aborder at our Car Fresh COAD JOURNAL. GETELD, MASS. LINE MAR Hy., Ratirond. on silivatoral e, we are infor लबही a hearli wideld

has arriv

ir, yet, to insure safety, the embankments were examination of a small model exhibited to us at our inches deep by 1 inch thick, placed 1 of an

"The 6 wheel engines weigh 191 tons, have 191

s flue ion, and haul 795 to s of coul. The 'Chesapeake' 10-wheel engine, weighs 194 cut is ton . has it i tons adhesion on her six divers, and less and hauls, with as much ease as the other engines, her allotted load of 384 tons of coal.

"I consider that the Chesapeake possesses to a greater extent than any other engine, I have yet seen, the combined qualities of efficiency and ease to the rail and bridges.

I am very respectfully yours, G. A. Nicolls, (Signed)

" Gentlemen :- I have just received your favor of

tisk of accidents to rain and stronges, than by any the track.

the regime used upon same road.

Their comparative weights and trains are as In her performances in detail, as compared with those of other engines, I beg to refer you to my testinose of other engines, I beg to refer you to my testinose of other engines.

Very respectfully yours, (Signed) G. A. Niconis, no outh Car Williams necting Gauge, or A SECRET 41 75 T 1 20 E 1 20 1 20 The curre manhand-from net and assis its publication accounts to Arms

"In going yesterday to Frenchtown, we passed through the 5th curve—radius 20,000 feet—with a velocity of 15 miles per hour, and in returning we passed through it at a velocity of 20 miles an hour.

"Although every part of our road is in good re"Although every part of

For the American Railroad Journal.

There are vertical struts of cast fron, about 3 presents of ten miles an hour."

I wish to make a few remarks upon "Rider's feet 4 inches apart, of an H formed section, confron Railroad Bridge" upon the Harlem railroad, a liaining about 8 square inches, extending from the little north of the tunnel, for the purpose of making practical deductions relative to the economy and safety of iron bridges for railroads generally.

This bridge is 70 feet long and about 20 feet wide, has two pair of ways, and is supported by two iron attended to the tunnel of the truss, crossing one another and pass through a bole in the centre of each vertical struts of cast iron, about 3 feet 4 inches apart, of an H formed section, confront Railroad Bridge" upon the Harlem railroad, a liaining about 8 square inches, extending from the little north of the tunnel, for the purpose of making paper to the lower stringer. Two diagonal ties of practical deductions relative to the economy and safety of iron bridges for railroads generally.

This bridge is 70 feet long and about 20 feet wide, has two pair of ways, and is supported by two iron strut, being secured to the top and bottom stringers miles an hour!" It was a performance to be calked the upper and lower horizontal ribs or stringers.

These stringers are parallel, the upper one of cast.

I estimate the weight of this structure approxi-

mately at \$2,000 Pis.; equil on he effects towards error myself, or by leading others into error couth's the train will very adon stand will show breaking the truss in the centre) to 5,000 lbs, on the subject. voilar centre of each trust III

I also estimate the ordinary freight trains passing over the bridge, at 1000 lbs. per foot; (only half what I am in the habit of estimating the possible load of a vailroad bridge). Of this weight, about 1 is sustained by one trues, the centre of the track being about 5 or 51 feet from one trues, and some 15 feet from the other. The lond of 70,000 lbs, then; is equivalent to fx 1x 70,000 26,250 lbs.; in the weight of structure, gives 31,250 lbs; and one half applied to a whole train of cars. I have no doubt of this weight, is the force with which each abut this might be done, still it must, I think, be attend-

17.025 lbs. (= 1x31.250) as the force; the cohesion of the lower stringer as the resistance, and 74 feet, (the height of truss from centre to centre/of stringers) as the leverage upon which the resistance acts. The following equation gives the tension T of the lower stringer, in sustaining the load, 75 t= 17,125x35. Whence 1 = 80,000 lbe, very nearly, =20,000 lbs. to the square inch of cross section, allowing nothing for the portion of the bars cut off By the bolt holes for connecting the diagonals, which cannot be much less than 1 of the whole. This would increase the tension to 26,666 lbs. to the ein confirmed by thenterpe

It may be thought that a portion of this truss is sustained by the diagonals. It is clear enough, that in the absence of the lower stringers, the diagonals would receive the strain which otherwise falls on the lower stringer. But as the truss is constructed. when loaded uniformly throughout its whole length; those diagonals only are brought into action which extend upward and outward, in the direction from the centre towards the ends of the truss; and at the centre of the trust, the diagonals running upward and outward as above stated, are connected with tion by all railroad companies. the lower stringer some for 5 inches asunder, and equently change relieve the stringer of any part of the horizontal strains and of an (arrol against all than be possible, however, to strain up the di-

agonals so tight as to produce some relief to the stringer, but such condition of things is not to be object in a better manner, at less expense, than in the depended on. It is manifest that the lower stringer ordinary way; and therefore it is that we have so should be adequate to sustain all the horizontal frequently called the attention of our readers, among

in the bridge in question, is liable to a stress of more than 25,000 lbs. to the square inch, from a dead in the shortest possible time, without making any load on one track, of 1000 lbs. to the foot run, and of the wheels stide on the rail—and thus injure, no yet the bridge endures the daily and rapid transit of only the wheel, but also the cars and road, and als

given in my work on bridges, which are estimated car.
to sustain trains of twice the above weight, or 2000 It

If I have committed any errors in calculation or otherwise, I shall be very thankful to any one who borne upon at the same time, to the extent of half will point them out. I am certainly far from exor two thirds the power required to make them
pecting to promote my own interest by continuing in slide, and the engine properly managed same time,

Utica N. W. Nov. 1, 1817. statusing gainellus

Sellery Hor the American Railroad Journal

In looking over several of your back numbers, find that you are trying to impress upon inventors the importance of bringing out some kind of im provement in breaks for railroad cars, so much needed to secure safety to lives and property in railroad travelling. You reter, I believe, to a break re of the trues, which added to the 8,000 for the to be under the control of the engineer, and by him ment would react upon the trues, with such a load in the centre.

Now, regarding the centre of the top stringer as a fullerum, half the length of trues as the average, power to hold, and cause all the wheels of a train to slip on the rail. It is only necessary that railroad companies furnish a good breakman, to each car, instead of one or two for six or eight cars, as is usually done—and, indeed, of what use are breaks on each car, if they are not applied when needed. Railroad companies generally dislike to use breaks that will entirely stop the wheels and cause them to slide, and they may well do so, as wheels are thus much injured by having flat places on the treat, giving them a more violent concussion to both wheels and rail, and producing a very unpleasant motion to care and passengers, and date garyand

companies to increase the number of breakmen, especially on passenger trains, all possible safety can be secured by the use of the old breaks. There is not so much need of a breakman on every car for freight trains, as their speed is much slower. But if any one should be fortunate enough to introduce a break that will be free from objections it certainly would be a valuable work for the dis coverer, and well might he claim the gratitude of the travelling public, while he would see its adop-

Yours respectfully,
New York, November 11, 1847.

REMARKS. The great object, as we conceive, improved machinery, is to accomplish the desired stress occasioned by the uniform load open out has whom we are sure there are many able inventors-It appears then, that a portion of the wrought iron to the subject of an improved break, by which a the bridge in question, is liable to a stress of more train may be brought to a stand still, if need be, and thus injure, not the trains of the Harlem railroad. without the increased expense to the company, or to If, then, bridges be built on the plans I have the business of the road, of a breakman to each

It may be a difficult thing to do,—but it can lbs, to the foot ran, with a stress of only 10,000 lbs.

must be done—to arrange a break on each car, which to the square inch of wrought iron, on any part, instead of 26,000 lbs. as above, or less than a of the stress for the same load, will not the chances of frilure be reduced almost beyond the range of possibility, as far as wrought tron is concerned?

Thave not time now to pursue this subject, nor is it necessary to my purpose. I only wished to point to the experimental lesson afforded by the bridge here spoken of.

If I have committed any errors it.

wheels are touched by the break. A train of six passenger cars has all wheels, and if each wheel is

n dive) StaWurrtand of those wheels might alider on the mit and ye not stop the training to short a distance 2

The great object we have in view into avert danger, and avoid increased expense and we are quite sure it is only necessary that the attention of the right man should be turned to the subject to accom-plish the object; and we doubt not he, who ever he may be-will derive more benefit from it, when it shall be accomplished, than did the inventor of the entire railroad system. Small things often yield more profit to the inventor than mighty ones.

South Carolina Raifrond Report. This report for 4816, with one or two of deived some months since, has been laid aside until it is almost time to look for another for 1817-it it not, however, to late to bring it into the vole where it belongs, and we therefore now give it place to keep up the history of this work, wi was one of the first railroads brought into use in this country, and for some years the longest line of ruilroad in the world under the management of one company.

On referring to the volumes of the lowersh, we find the first report published by us, in relation to this road, by that accomplished engineer, Horatio Allen, now of New York, was published on the 17th of March, 1832—and the second on the 2d of June. of the same year—of course it is due to it, and to ourselves, to continue its history from year to year, as long as we have the supervision of the Railroad Ioprnal

It will be seen, on referring to the report, that the carnings of the road were, he 1846, \$30,383 greater than in 18150 The increase of 1817 over the mor vious year will probably be more than twice than ing an exhibited \$30,181 85, applicationis

liberality and co-operation exists between the differ rent lines of milroad in that region-that thuyes a pudiate all idea of monopoly, divalry and bomber tion," and look upon each if as a part of a common system; the veins and arteries of a greatocommercial body, animating in the reciprocal circulation of its trade, the whole, and paralizing by impedi ments, or restrictions, no portion." no stan ad

This is as it should be, and we hope to are this wise policy pursued throughout the country are now. It will be seen that the Camden branch is in a fair way for completion; and efforts are now making to extend the Columbia branch to Greensville, and the Camden branch to Charlotte, in North Carolina, and thus open a wider field to Charleston. It is possi-bly, fortunate that the publication of this report has been delayed until this time, as it will be better un derstood, and all its connections seen upon the man published by us in this number, to show the impor-tance of an early construction of the line from Wil-mington to Manchester, and thus fill up that unseem-

CHARLESTON, S. C., 9th Febr 1847. the Stockhalders of the South Carelin be Railroad Company puesses of year count

GENTLEMEN: The board of directors have the honor of presenting to the sockholders their third unnual report of the operations of the South Carolina railroad company, year ending the Slat of December, 18 The gross receipts for freight, pus of the base and mail service, for the base and loyear 1845, who do have a 1858,607 71 The expenditures to a same period, cembracing ordina recoverate x civis dil

improvements on depots, an interest on foreign and domestic debtonvas sie ni eyad ospio

food management Amount of dividends paid 147,900 00

\$169,549 61

Balance applied to improvement 21 649 61 of property,

of \$2 25 and \$2, making \$4 25, on each share was declared, being within a fraction of 52 per cent, on the par value, \$75 of the road stock, and leaving as shown, \$21,619 61

plicable to objects as stated. he gross receipts from all sources for the year 1846, were \$589.081 25

The expenditures for same period, including current expenses, additional machinery, improvecount: paving Meeting street, 418,171 17

Amount of dividends paid

170,910 35 140,725 50

Bulance applied to improvement of property and reduction of in-debtedness,

The two semi annual dividends were, for the first half year \$1 50, and the last \$2 50, making \$4 on each share, and equivalent to and expended on account of the stock, and 55 per cent on par value of stock, and leaving an exhibited \$30,181 85, applicable to improvements. The large amount under the general hend of expenditures for the year '46 on the road, the amount of freight, separating the higher speed exacted under contract for as compared with those of the previous years that which goes into, from that which comes of 1844 and 1845, may be explaned by an from the interior, the number of bales of cot other travelled routes, have likewise conspirappropriation for the improvement of Meeting ton received at each station, the number of ed to produce similar injurious effects, will be street, and for damages; particularly in the packages and pieces of merchandize forward-loss from fire, (supposed to be the act of an ed by railroad into the interior, and the am't incondiney) of a large amount of cotton, while of articles received by railroad for transmisin the cars on the track at Aiken, ready for sion to other places, with a comparative statedeparture by the downward train the next ment in table No. 7, of the income of the morning. If these amounts, as in the audit road for the last three years (commencing tor's comparative statement of ordinary expenses, since the consolidation of the two companies be deducted, we have for the legitimate and enavoidable expenditures, under all the various heads, of current, materials, property, and interest account, \$282,972 31 in the year 1844 279,475 43 for 1845 and 300, 572 25 for 1846—showing, as compared with the last three months of the year; commending with the more recent extension of the year, and as compared with the last or previous year, an excess of expenditure of 17,699 91, against an increased receipt of \$56,210 57; and as compared with the last or previous year, an excess of 21,196 79 of expenditure days and the reconstruction of an additional number of supplies; in the large amount of machine from the master of the work shops;) in preparing a cotton, grains, western productions and do terms on hand (as exhibited in the schedule from the master of the work shops;) in preparing a cotton, grains, western productions and do terms of the construction of an additional number of cars; and in the increased expenses may be accounted for in the schedule from the master of the work shops;) in preparing a cotton, grains, western productions and do terms of the construction of an additional number of cars; and in the increased expenses may be accounted for in the schedule from the master of the tack of the Hamiltonian of the construction of an additional number of cars; and in the increased expenses are more construction of an additional number of cars; and in the increased expenses of the schedule heavy locomotives, and the higher speed of the facility of the construction of an additional number of cars; and in the increased expenses of the schedule from the injuries inflicted by the heavy locomotives, and the higher speed of the facility of the construction of an additional number of cars; and in the increased expenses of the schedule from the injuries inflicted by the heavy locomotives, and the higher speed of the facility of the construction of an additional number of cars; and in the increased expenses of the facility of the construction of the facility of panies be deducted, we have for the legitimate heavy locomotives, and the higher speed of ties, which it is for the interest of this compathat of the Camden and other roads now prothe passenger trains. The relative proper my to continue to afford. In connecting the jected, with the view of a connection with tion likewise between the receipts and expen-forwarding, with the other obligations of the South Carolina. Promptness of execu-

the low fate (with a view of relieving the suffering planters of the interior) at which the 389,148 10 company undertook to transport grains.

Upwards of 250,000 bushels of corn alone the last season, were transported to Columbia, Hamburg and intermediate stations; and at the moderate rate of freight charged, a porlargest moiety of the amount was made charge From the above, two semi annual dividends able in the columns of expenses, while a ver small balance was carried to the credit side of receipts. The receipts of the first half year of 1846, which were greatly affected by the reduced crop of 1845, had likewise an influence in disturbing the relative proportions between receipts and expenditures, for by re-ference to the auditor's accounts it will be seen that of the amount \$589,081 52, receiv ed for the year 1846; but 251,741 36 were taken in the first half year, while the last half year, the receipts were swollen to 337.

340 16: and under such a pressure on our locomotives, cars and available force, as unavoidably to involve greater expense from the necessity of loading cars and running the trains at night.

The report of the auditor with the accompanying tabular statements, numbered from I to 7, exhibits, in a clear view, the state and condition of the property and finances of the company, with its limbilities, assets, etc., for the year 1846; and of the monies received on the construction of the Camden branch road. The tabular statements Nos. 4, 5 and

ses : additional machinery, the start ad ditures this year, were greatly disturbed by common carriers, your direction have been influenced not merely by the example and practice of other companies competing for the same business, but with a view of so cheapening and of so perfecting the means of transportation as to bring not only contiguous points, but even those the most remote, in certain and intimate communication with each other, thus augmenting the transportation on the road as the ranges and circles of commercial intercourse were extended, diverting to, and through Charleston, merchandize and produce which hitherto cought the markets of consumption by other channels; and into which they would still continue to flow, if equal and greater facilities were not afforded by what is now known and designated as the Carolina and Geo gia route to the west. The policy pursued has not been without its favorable results on the transactions of the road. As this matter, however, was referred to a committee to report on, your board do not consider any further remarks necessary beyond the presenting, on this occasion, state-ments and facts for the determination of the maturer judgment of the stockholders.

> The report of the superintendent of the rond, Mr. Lithgoe, is not as favorable as your direction could have desired. His statements which have been confirmed by the inspections of the president, are : that the truck, from the very light iron rail in use on the Hamburg portion of the road, is beginning to suffer from the heavy freight trains, and locomotives, which the increased business has now rendered indispensable. The greater number of passengers in the daily trains, and iron mit is wenting daily, and in some inflange form) as to be very little superior to the common flat bar, which the South Carotina camil and railroad company found necessary, at a former period, to remove. This subject, in part, was brought to the notice of hibiting the average number of locomotives the stockholders in the last annual report. in active service; their arrivals and departant and the recommendation of importing a certures, with the number of miles run. Appended to these documents is a statement, for stituted for those which were impaired, met

cross ties, with a T rail of 57 lbs. to the yard, (though the timber of a considerable portion of the lower section had to be removed,) does present system, and the chances of being not exceed \$160 to the mile—that on the Hamburg road has amounted to \$351—and even at this cost the superstructure in many places, has with great difficulty been preserved in the place of many profitably employed in the place of many profitably employed in the place of many the Camden branch, shows the present continue to be extended the road, or to continue to be extended the industry of the engineer, as will, in the interest of the road, or to continue to be extended the industry of the experience which has been their guide in this case, they recommend the execution to those who may succeed them in office.

The report of the engineer, Mr. McRae, of these new bired the wages paid for from decay. I am of the decided opinion that the timber in which the iron lays, on an average will not last longer than three years. If this be the result, is it not a matter for con-sideration whether it would not be better at once to adopt a heavier iron." While this subject of defect in the road, and if the remesubject of defect in the road, and it the removed abled but susception and hard usage are under the stockholders, it is with some satisfaction fit for renewal, though portions of their parts that the board have to charge the injury susmay be worked up in other machinery—and may be worked up in other machinery—and the continually increasing business, which in requiring a superstructure equal in strength to the tonnage daily exerting its weight and power on it, furnishes in the increased profits of transportation, the adequate means to renew the road, in sections, gradually, as pro-

The report of the master of the work shops, and of the agent of transportation, exmotives which will be necessary to meet the pressing demands of a constantly increasing business to the satisfaction of the community to be accommodated. This report is very satisfactory as to the service which has been rendered the last year by the company's lo-comotives, the number of miles performed, The inhanced expense in the maintenance and the proportional number of engines com-The inhanced expense in the maintenance and the proportional number of engines company in the company and the proportional number of engines company already been encountered, the engineers feel fragile for the weight and velocity of the company, which have been kept in repair machines it has to resist, forms but a small and on active duty. It is believed that the portion of the injuries otherwise sustained, in performance for the last six months of the performance for the last six months of the best devised plans, and the most powerful all the varied operations of the road. If the track is weak and defective, and subjected to invorable comparison, with the like number and class of locomotives on any other road. With this report is a statement of the work of time, become more frequent, damages and forfeitures oftener incurred; and the injury car factory. These statements go ar to re
beneficial results of that liberal policy, saviy

tion, certainty and security are the strong recommendations of railways, and if they are not so constructed as to ensure these requirements by the public, the transportation on them will diminish or be executed without attack, with frequent interruptions and at great hazard. The stockholders of the Baltimore and Onto company, the road of which was constructed, on the lower section from Harper's Ferry, with a light flat bar, and the able report of its engineer, accompany and the able report of its engineer, accompany and the able report of its engineer, accompany and the able report of the stockholders, that they may either by remained the project of the stockholders, that they may either by committee, reared for this special purpose this proper condition by the master of the stockholders of the first sand the able report of its engineer, accompany of the stockholders, that they may either by committee, reared for this special purpose the stockholders, that they may either by committee, reared for this special purpose. The experience of the tousiness of the injury indicted on tron rails, according to the velocity and amount of tonnage transported periodically over them, demandated to the serious considered on the different part of the stockholders and the proper condition to the velocity and amount of tonnage transported periodically over them, demandated to the stockholders and the proper condition to the velocity and amount of tonnage transported periodically over them, demandated to the stockholders and the stockholders and the proper condition to the velocity and amount of tonnage transported to the first instance a rail of heavier seeight soil in all its its operations is more assimilated to the company's service, have according to the order of the stockholders and the proper condition to the stockholders and the stock of the stockholders and the stockholders and the stockholders and the proper condition by the mandate of the stockholders and the proper condition by the mandate of the stockholders and the p way on the Columbia road, constructed on ing by purchase the labor necessary for ser-burden cars for the ensuing year, as will, in

The report of the engineer, Mr. McRae, of the Camden branch, shows the present coned in the condition that the interests of the of those now hired; the wages paid for the company prescribes. The present iron, whom, would be a high remuneration to the (says the superintendent,) embeds itself in company, for the capital so invested. All of the timber, "so much so that the timber has which views are respectfully submitted to the to be removed more from this cause than consideration of the stockholders. modated by a change of route in the road proposed; and the subsequent summer and winter interpositions of successive floods in shops, and of the agent of transportation, ex-hibits the state and condition of the property in machinery, the number of cars on hand, the number of locomotives in service and their present value, the number of those dis-haled but susceptible of repair, and the numplished in time to enable the company to press forward, with all practicable dispatch, during the summer and fall months, with the superstructure to Camden. A large por-tion of the grading along the entire line, is already completed; the whole is under contract; the wooden superstructure with the rails, between the Congarce and Waterec are nails, between the Congaree and ventering now in progress. Iron sufficient for the completion of that section has arrived, and if the floods of the Wateree do not interpose the floods of the Wateree do not interpose the floods of the Wateree do not interpose already been encountered, the engineers feel

adopted on their part, of extending pance and credit to all eister roads, having for common objects the bringing the western pertions of our Union is more intimate, social and commercial relations with those of the south. The roads in Georgia and Alabama are rapidly and enccessfully progressing many of them finished—new roads, penetraling more remote and hithorto inaccessible sections in those and the adjacent states of Mississippi and Tennessee, projected; and companies in progress of organization for immediate and successful action. The road from Chataneoga to Nashville is no longer a problem and we have every assurance of the most energetic efforts to commence, and push it rapidly to completion. The Hivese railroad, opening a communication to Knoxville and the interior of Eastern Tense, has been revived, and will receive a w impulse on the completion of the Western and Atlantic to Cross Plains, new only awaiting the daily expected arrival of the iten to finish it. The interior of Alabama iron to finish it. The interior of Alabama is looking with deep interest to a railroad communication between the Georgia and Tuscaloosa, by the Rome branch and valley of the Coosa. Superadded to these, charters have been granted by both of the legislatures of North and South Carolina, and our people everywhere awakening to the importunce of rendering more intimate, and binding by railroads the city of Charleston with the interior districts of our own and more northern The most gratifying symptom, however, in

all these movements, is the enlightened spirit by which the projectors seem now to be in-fluenced—repudiating all idea of monopoly, rivalry and competition. We have witness-ed with gratification, in a recent convention at Macon, indications of a desire for that concert and union in all these enterprises, by which our southern railroads are to be considered not exclusively state works, but as a part of a common system; the veins and arteries of a great commercial body, animating in the reciprocal circulations of its trade the whole, and paralyzing by impediments, or restrictions no portion. We cordially respond to views so enlightened, and so well calculated, at this time, to stimulate and bring in closer communion, interests, having

To surplus income 10. 200 127 200 52 To balance of indebtedness 2,765,090 74

10010,857,68 encountered, the engineers feel

By construction of Columbia branch, 2,863,654,49

egroes purchased since Jan. 1814.

Received for through tickets sold by Geor-

The number of bales of cotton received in Charleston by the railroad, from 1st January to 31st December, 1846, was 186,971

General statement of receipts and expenditures for the year 1846.

Gross receipts from all sources in first half year 1846.

119 761 90

Leaving a net balance accounted for as

171 17) \$100,530 05 Per list to snallsbroken co

Wilmington and finehester, N. C.

Or the Connecting Link—RallROAD.

This break in the line of rallroad from Portland in Maine, to the extreme limits of Georgia, has been a fruitful theme of complaint, by travellers between the board.

the present thine of steambar the present the steen amply confirmed by the creat most

There have been spirited efforts made by the pedple of Wilmington to open this road. In 1845 and 46 there was much exertion, and a survey was made, and a report published, which exhibits a very favorable route. The distance from Wilmington to Manchester, where it will connect with the Camden branch road, is one hundred and fifty-eight miles-151 of which are straight lines with grades and curves as favorable as on most other roads in the country and it can probably be built on terms highly favorable, owing to the make of the land and the abundance of good timber along the line. The estimate of its cost, made by the engineers —puts down the entire amount, for a single track, depots, and a good outfit of machinery, at \$1,466,000; and the net income for the first year at \$100,700, or ., 170,910 35 over 6 per cent.—which ought of course to increase tom the net profit two dividends have been declared, making the average per cent. on the joint dividend 51 per cent.

140,725 50 hand, but the map only reached us a short time since, and we are now able to,—and with much pleasure—present the subject to our readers in such a way as to enable them to see and feel its import-

comotive in first six months in a second of the interest of th they that t they New ment the C certa build make

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become the visits of southern merchants and business men, they must aid the people of Withington, and others laboring in this enterprise, to build this road, they must subscribe to its stock—they must show that they feel an interest in its early completion—they must do as Baston did to draw business from New York. Indeed they have the same induces ments for aiding in this work, that Boston had in building the Western road, and has in constructing the Ogdensburgh and the Vermontroads; and, to a certain extent, that the Philadelphia people have in building the central road to Pittsburgh—viz: to make the communication and the Communication and Maiden Down' bays, and passes make the communication easier with Philadelphia to the construction of the pesitionallo diswind

The amount required from them will be comparatively small-yet very important at the outset, and therefore it is that we desire to recommend this work especially to those who have so direct an inthe fact that along the line and tota niteralal

Thereport it will be seen was dated December, 1816: Since then meetings have been held, and stock subscribed, as will be seen by referring to the Journal of July 10th, and August 21st, but to what extent we are not now informed though we believe that the prospect of an early commencement of the work is quite flattering. | oils to The report is siddressed to those who furnished the means to make the survey, and says

no In compliance with your wishes and inatructions, a corps was organized and the survey of the route for the contemplated road

commenced in July last delegant and with map and profile of the route, we beg leave herewith to submit to you gui bere exist

railroad. One to cross the cape Fear, below the junction of the two civers, with a bridge ably flat surface of the earth in wet weather. or steam ferry boat; thence over the swamp on Eagle's island and Brunswick river.

Northeast at or near Hilton, thence across quarter of a mile to the south of his house, it the point between the two rivers and over the crosses the head of McRae's Mill Pond, Northwest. And a third, to commence at some point on the west side of the northwest branch of the cape Fear, and above the point at which the Brunswick breaks from it—and from this point the connection to be made by

means of a small steamboat.

This last, being decidedly the cheapest

Starting, then, at 'Meare's Bluff,' 3 miles above town, the table land being reached at an elevation of 14 feet above tide water, the line pursues a northwesterly direction, lor the pursues of avoiding the main body of the lance, except that immediately at the connect line and at each end.

Thus presenting a road 158 miles in length of which 151 miles are straight, and the ball lance, except that immediately at the connect line and at each end.

Thus presenting a road 158 miles in length of which 151 miles are straight, and the ball lance, except that immediately at the connect line and at each end.

Thus presenting a road 158 miles in length for excavations and embankments, for an extraint lance, and the ball lance, except that immediately at the connect line.

Thus presenting a road 158 miles in length for excavations and embankments, for an excavation

court house. From thence to the Great Pe-dee river, a favorable point for crossing which is found near the head of Mr. Gibson's dam. Crossing the river at this place, and the river swamp, 2 miles in extent, the route after crossing Polk swamp, follows the ridge between Highlitt and Jeffrie's creek, to a point near the road leading from Darlington court house to Ebenezer church. From thence the route row awamps, Lynche's creek, Black river, Scape O'er and Rocky Bluff swamps, to a point south of and near Sumterville, a distance of 37 miles.

Thus far the country over which the line has passed, is generally so flat and uniform as to present but little variety, and with some few unimportant exceptions, it abounds in timber of the very best quality for the construc-As to the advantages of theor effect of

The graduation throughout will be comparatively slight, and of easy execution ; con-At the commencement, various schemes sisting, excepting where streams and swamps were proposed for making the necessary connection with the Wilmington and Roanoke sufficiently high to protect the road from the water that usually remains upon the remark-

From Sunterville, the route passes over a Eagle's island and Brunswick river. country presenting a similar appearance to A second, to start from the depot of the road that already described, until it reaches Col. quarter of a mile to the south of his house, it crosses the head of McRae's Mill Pond; and ascending from this, strikes in Mr. Rees field, the ridge of hills, commencing below Munchester and bordering upon the low grounds of the Wateree river, known as the High hills of the Santee. Passing the ridge at its lowest point, in Mr. Rees field as an elevation of 1212 and 1212 on the hill, and curving around to cross the John Moore's plantation. Passing about a Northeast at or near Hilton, thence across quarter of a mile to the south of his house, it ridge at its lowest point in Mr. Rees field, at an elevation of 316 feet above tide water, motives of present economy determined us in selecting it as the point at which a line to serve as a basis for our estimates should commence.

Starting, then, at 'Meare's Bluff, 3 miles above town, the table land being reached at Camden road.

30 The superstructure to consist of subsills 4 by 10 inches under the bearing of the rails and bedded so that their upper surfaces shall be two inches below the graded surface of the road, and at their joints resting on cros pieces of similar dimensions. On these the cross ties or sills 8 by 8 and 8 feet long. placed three feet apart from centre to centre every other one being notched on its upper surface for the reception of the rail; the atternate sill being brought to a level with the is continued straight, crossing Lake and Spar. other by being notched on the under side and row awamps. Lynche's creek. Black river, let down upon the subsill. Upon the sills the rails 6 by 7, 4 feet 5 1.2 inches apart, and chamfered on their inverseller, one and a half inches, are placed; being confined to the notched sill by means of a worden key, and kept in its place on the other by a wooden bracket on the outside of the mille Over streams and swamps, lattice bridges and aresthe work has been estimated for . The former on followns' plan, roofed and wentherboarder to protect them from the weather, and of these across Livingston's creek, Lumber and Little Pee Dec rivers; and one of two spans, with a

The trestle work where, as in the Great Pee Dee swamps, it is not over 12 feet in height, is on the plan adopted on the South Carolina roads; the piles being capped and cross braced, with string pieces 10 by 14 in.,

freshets as paid some sid of toll silver of For a road built in this manner, with a plate rail of 2 1.2 by Linch, double the weight of that ordinarily used, and consequently con-ing about \$1400 per mile more; (and that it will answer well for the purposes for which it is intended we think no one can doubt) we present the following estimates, viz:

Carolina, 63 miles in extent, will cost; idias
Per execution and embarisment 271 059 02
For excavation and embunkment \$71,956 23
For superstructure 340,266 52 For bridging 19,570 00
For warehouses and water stations . 49 13,000 00
For warehouses and water stations . 333 13,000 00
For pay of angineers, including contin-bringing I
cica son year francisco abres door de and 10,200 00
For land damages 4,000 00 For steambout 15,000 00
For steambout
wide at grade, and with slopes of I & horizon-
47 1400, 87 10 mendicular.
And that portion in South Carolina, 95
by 10 mobes under too liw trastain calin
For excavation and embank-indi os bubbed bas
1-ment atta belown and 400 623 17
For superstructure system 514,356,38 boot odd For bridging 96,365,00 boot odd For warehouses and water sta
For bridging
For ware sound and water at D 1511mits 10 890940
Manual . had. 3. hus. 8 Ad. 27,000 00 seri secto
For pay of engineers, aincludes took south boosig
ing contingencies 95 960 70

ing contingencies 25,260 70

For land damages 11,000 00-864,605 25

Motive power, as above 122,400 00

at the solid guided guide 122,400 00

has solid solid guided guide 1,466,000 00 It will be seen that the route on which the estimates are made, is the one adopted by the convention held at Marion court house, in August last. At that convention a different route was advocated viz one to run from Marion court house to Sumterville direct; and its friends were desirous that a survey of it should be made, Our, timited time placed this out of our power ton reconnoisance, how ever was made, and we intended, in compliance with a promise to that effect, to present an approximate estimate of the cost of conn on it; but fearning that the charter presented to the legislatures of the two States designates in conformity with the resolutions d at the Marion convention, the precise route over which the road is to be built, we deemed it unnecessary at present to do so.

PROBABLE INCOME OF THE ROAD. Under this head, it may now properly be considered out of place for an engineer to attempt unything like an estimate, as the importance and value of railroads are so well understood by the people generally , and from uncertain data? consequently fallacious, that the increase of property in Boston, from and are therefore justly looked upon with dis- 1840 to 1845, over that of the previous five

can be proved by reference to the statistics of value of property of nearly 500 per cent.; all railroads, intended, as this is, as a thorthe value of it being estimated in 1833, at oughfare for travel; that, as in the case of \$310,000, and now, by an estimate made by the Wilmington road, this branch of business, a committee composed of competent men, in as indeed all others, is ever steadily increase value in set down at \$1,500,000, and ing: (see note,) and, in addition, the contemplated road will supply a desideratum long value of property must be attributed wanted; the connecting link in the great to the construction of the present used leading the improvements between the north and

But to return: Assuming the probable inlength,) uso sorgastra C aron gailes

ADVANTAGES OF THE BOAD.

As to the advantages of the railroad we

take pleasure in quoting statistical facts. To the citizens of Wilmington we would naturce the case of the city of Boston, where the multiplication of railroads leading to the former roads, by giving greater facilities for travel and business, and the fact which we find in Hunt's Merchants' Magazine for November, 1846, a work of undoubted authority, that For substantial structure, and amount of investments, Massachusetts has taken a decided lend in railroad enterprize; and what was, by many, regarded as a doubtful experiment, has proved a good investment of capi-tal, dt appears from the census of last year and are therefore justly fooked upon with discredit. But in this instance, being enabled to present an estimate based upon information obtained from authentic sources, we may be excused for venturing upon the following, the truth of which those interested can result from the books of the Wilmington company, for the year ending 1st December, 1846, was 11,000 which at \$6.

Would amount to the same of the work of the was amount to the company for the region of the same for 1845, was \$1,000 per voyage, or for the \$1,000 which at \$6.

Would amount to the company for the region of the same for 1845, was \$1,000 per voyage, or for the \$1,000 which at \$6.

Would amount to the company for the period of time amounted to the company for the region of the same for 1845, was \$1,000 which at \$6.

Would amount to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the same period of time amounted to the company for the compa We honestly believe that the freighting business and way passengers on this road will exceed that on the Wilmington and Ro anoke road, at least 25 per cent. in consequence of its passing through a country far more wealthy, more densely populated and consequently having more produce for mar-setts.

The total number of passengers carried on points of support.

This has proved to be the case even with was nearly 240,000, or double the highest new engines which had been in use but a settimate for the trade of the same time by short time. To remedy this defect, supports three times the total population of Massachubit these have given rise to other evils which are equily objectionable.

opinion, we have only to mention a fact that it is now estimated at; and an increase in the

To the citizens of the country through which the road will pass, we can only that all experience in railroads has established ceipts of the Wilmington road, (of the same the fact that along the line and to a consider rable extent on each side, the value of property is greatly enhanced, and the amount of produce made is constantly increased because of the facilities a road furnishes for sending it to market; waste lands are reclaimed, and those under cultivation improved, and the trees of the forest, formerly valueless, are made producers of wealth. With these facts it would not be difficult to prove that the increase in value of property consequent upon the construction of this road would far exceed the entire cost of the work.

Give the people but the opportunity of pro-curing a fair reward for their labor, and their habits of industry are stimulated, and their enterprize and ingenuity will extort wealth and comforts from sources now wholly lunproductive; and with an awakened spirit of improvement, education and intelligence with be found pinking equal strides.

All of which is respectfully submitted,
John C. McRan, Civil
L. J. FLEMING, Engineers.
Wilmington, N. C., Dec. 12, 1846

Gauge, or Width of Track for Raifronds. Report on the Gauge for the St. Lawrence of Atlantic Railroad. By A. C. Morton, En, Chief Engineer.

In some cases they have been so much ex-

ial area, short tubes are the best, as they t a larger surface near the fire, are less to get choked, or out of order, and regh them.

lso states that he has increased the powv lengthening the boiler and fire box; hut the engines are as large as ought to nt on the present roads.

it was ascertained that the narrow e did not admit of a more powerful enthe engines were as powerful and as y as ought to be placed on any road.

ire is no doubt that if more powerful en enfficiently strong roads to sustain them.
commissioners in their report to governt, remark in reference to the parrow gines, that they " are as powerful as they grate or to well be made within the limits of this fire box."

or General C. W. Paisley, inspector of railways, whose opinions from his on and from his not being an advocate her the narrow or broad gauge, are en-to great respect, states in his testimony The lengthening of the boilers appears to me to be a failure, since it has not produced engines equal in power to those of the Great Western railway; and some of the engines with long boilers which I have observed by a strong blast, but the draught should be such as to produce only the amount of steam that the speed were materially increased I think south as peed were materially increased I think sought prove dangerous, and which must have a tendency to injure the permanent railway."

"As a further proof of the inefficiency of long boilers to obtain the object in view, I may remark that the engines made by the Mesera. Sharp (brothers,) formerly Sharp & Roberts, of Manchester, as well as Mr. Tre-

re can be no doubt that with equal su-vethick, of the Grand Junction railway, at will be found of the greatest importa vethick, of the Grand Junction railway, at Creeve, and by Mr. John Gooch of the South Western railway, travel as quick as those long boiler engines of Mr. Stephenson's, and much stendier."

Will be found of sale grand quick as those regards economy and punctuality.

The utmost punctuality is required in the running time of trains, more particularly as on roads having but a single track where

Stevenson, the great advocate of the engines with boilers of ordinary length in use w gauge, in his testimony before the on several roads, had produced as great fecommissioners, states that they have suits and attained as high speed, with less the boiler as wide as the narrow gauge oscillatory motion, than the engines with allow; and this is evident from the valong boilers. It appears further, although expedients resorted to for the purpose of the advocates of the narrow gauge had as log an inch or two in width of fire box, serted that it affords all the room necessary serted that it affords an the room the for sufficiently powerful engines, yet, a great to run with greater regularity and purely effort had notwithstanding been made to add ity.

But there are other and more important

least of it, doubtful success.

should be remembered that the weight power of engines had been from time to increased; that roads had been rebuilt, increased; that roads had been rebuilt, boiler may be regarded as a failure; and no their parts made stronger, in order to their parts made stronger, in order to the second stronger that the accomplished except that of the freight and passengers carried.

The revenue of the road is in direct proportion to the freight and passengers carried.

The effect of engines of great power is to increase the tonnage of each train, thereby in these heavier engines up to the time likely to be accomplished, except that of inwidth of the fire box. A wider gauge will Then, and not till then, was it stated undoubtedly afford space for these changes, and its liability to run off the track.

The power of an engine is in proportion to the extent of its evaporating surface, or could be built on that gauge, there could be built on that gauge, there perhaps more correctly in the language of the no difficulty or hesitation in providing. Mr. Stephenson: "The power of the engine,

so as to bear the same proportion to a 5½ feet num: that is nearly 50 per ct. of the whole track that those of a narrow gauge engine cost of running freight trains this distance, now do to 4 feet 8½ inches, would add to the By adding to the power of the engine. stent of heating surface nearly 25 per cent.

This allows an important increase of power which will lessen the cost of transportation,

From the above testimony, it appears that trains must pass each other at given point gines with boilers of ordinary length in use A large number of the roads in the Unite States have but one track, and very many the accidents on these roads result from running to time. Delays are occasions unavoidable, particularly with freight tra and more powerful engines will often be of pable of making up lost time, and at all tim to run with greater regularity and punctis

reasons in favor of more powerful en The revenue of the road is in direct pr

with a given amount of traffic to reduce the number of trains and the number of engines required to do the business of the road.

The expenses of a road are, nearly as the miles run; therefore the effect of transporting an equal amount of tonnage with a less number of trains is an increase of net revenue.

An engine capable of drawing 20 tons net load more than another, will, applying perhaps more correctly in the language of met load more than another, with apprivation. Mr. Stephenson: "The power of the engine, an average charge of 14 pence per ton per mile, increase the carnings 25 pence for each mile, increase the carnings 25 pence for each mile run; and, allowing that your freight engines will run 300,000 miles per annum, fire box."

Increasing the size of the boiler or fire box

By adding to the power of the engine, a much larger business may be done with but a small increase of cost. Many of the expenses of locomotive power are the same whatever the power of the engine. The cost the commissioners, that "he does not the Messrs. Stephensons' opinions of ficiency of the narrow gauge of 4 fi.

The first all purposes has been borne out by been been been to the two large boiler and fire box; and although it may not be necessary at all times to use the box of sufficient width to give such may be obtained with greater economy, and been boure as is required.

to the locomotive engine as is required present state of railway travelling.—

obert Stevenson has attempted to get this disadvantage by length-ning his in the best engines constructed by him, tute a large part of the expenditure for power lives. As it regards fuel, it may be observed that hose parts of the engine which are so soon destroyed by fire.

As it regards fuel, it may be observed that those parts of the engine which are so soon destroyed by fire.

The repairs of locomotive engines constituted by him, tute a large part of the expenditure for power lives. A large engine working to the full expenditure for power lives. As it regards fuel, it may be observed that it varies with the load, but the ratio is modified somewhat by the amount consumed in

WESTERN RAIL WAY CANAD, led proposals will be received until the next october, at the Office of the Green Scaled proposals will be received until the 1st day of next October in the United of the Great Western United by the Great Western United by the Great Western Division, extending from London to Windsor, a distance of one hundred and ten miles; also for the branch to Port Sarnia, forty-five united in length!

Plum and Specifications of the works can be examined of the Engineer Office, in Hamilton and London on and after the tath of September.

C. B. STUART, Engineer.

TO RATER OAD COMPANIES TO BUILD THE RES OF MARINE AND LOCOMOTIVE RIGHTS AND BOILERS THE STATE ALL WE HAVE A TROIT WORKS.

TOMORDED OWN DUG HT SKON WHARKS

ber Attures to mit. fitting tigs that, with screw mis, suitable by STEAM, WATER, GAS, and for the suitable by the angle of the suitable by the



Mahadastited and for tale by the last to t of trains trains to re

PAILROAD HON. THE NEW JEHSEY I Iren Company, Boomon N. J., are now mala-ing Railroad Barn, and are prepared to execute, or-ders for any required pattern. Apply to FULLER & BROWN, Agents, No. 139 Greenwich, corner of Cedar street.

THILEED RAILROAD WHEELS-THE undersigned are dow prepared to manufacture their improved Corrugated Car Wheels, or Wheels with any form of Spokes or Disks, by a new process which prevents all strain on the metal, such as is in produced in all other obtiled wheels, by the manner of casting and cooling. By this new method of manufacture, the hubs of all kinds of wheels may be made whole—that is, without dividing them into sections—thus rendering the expense of handing unmassary; and the wheels subjected to this process will be much stronger than those of the same size and weight, when made in the ordinary way.

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PASSENGERS, SPECIE, GOODS, PARCELS, etc. To all parts of the United States, North and South America, West Indica, India, forerland or otherwise, Constantinople, Egypt, the Mediterrane. In, the Peninsula, and all parts of France—via Havre.

cents at Cowes for the Ocean Steam Navigation

Persons wishing to transact business with S. D. C. & R., will please apply to the subscribe will make cash advances on consignments state dans

I TOROBERT GRACIE To Co Mo Tive And Garage Court of the Subscribers are how prepared to receive orders for the well known and approved Reading Leconotics and Car Arles drawn to any required pattern from Bleon Iron only. Address on the Samuel Samuel Kimber & Co. Willow Street Whar, and address arranged with the Samuel Sa

BACK VOLUMES OF THE RATEROAD JOURNAL for sale at the office, No. 105

DATENT RAILROAD, SHIP AND BOAT PATENT RAILROAD, SHIP AND BOAT Spikes. The Troy Iron and Nail Factory keeps constantly for sale a very extensive assortment of Wronght Spikes and Nails, from 3 to 10 inches, nanulactured by the subscriber's Patent Machinery, which after five years' successful operation, and now almost universal use in the United States (as well as England, where the subscriber obtained a patent) are found superior to any ever offered in market. Railroad companies may be supplied with Spikes having countersink heads suitable to holes in iron calls, to any amount and on short notice. Almost aff the railroad snow in progress in the United States are fastened with Spikes made at the above named factory—for which purpose they are found invalua-

factory—for which purpose they are found invalua-ble, as their adhesion is more than double any com-mon spikes made by the hammer.

Altorders directed to the Agent, Troy, N. York will be punctually attended to

Spikes are kept for sale, at Factory Prices, by I.

Spikes are kept for sale, at Factory Prices by I. L. Townsend, Albany, and the principal Iron merchants in Albany and Troy; J. I. Brower, 222 Water St., New York; A. M. Jones, Philadelphia; T. Janviers, Baltimore; Degrand & Smith, Boston.

* Pailrond Companies woulddo well to forward their orders as early as practicable, as the subscriber is desirous of extending the manufcturing so as to keep pace with the daily increasing demand.

ANUFACTURE OF PATENT WIRE Rope and Cables for Inclined Planes, Standing Ship Rigging, Mines, Oranes, Tillers etc. by 10HN A. ROEBLING, Civil Engineer, o. . Agrudetis its evaporating surface

These Repes are in successful operation on the planes of the Portage Railroad in Pennsylvania, on the Public Slips, on Ferries and in Mines. The first rope pur upon Plane No. 5, Portage Railroad, has our run 4 sensons, and is still in good condiwhire the quantity of fuel contained in whit

PATENT HAMMERED RAILROAD, SH and Boat Spikes. The Albany Iron and Na Works have always on hand, of their own mana-are, a large associated of Railroad, Ship and B. Spikes, from 2 to 12 inches in length, and of any lor of head. From the excellence of the material ways used in their manufacture, and their very ge-eral use for railroads and other purposes in this e-try the manufacturers have no has ination in warre-ing them fully equal to the best spikes in mark both as to quality and appearance. All orders a dressed to the subscriber at the works, while prom-ity executed. JOHN F. WINSLOW Agent Albany Iron and Nail Works, Troy, N., in The above spikes may be had at factory prices. Erastus Corning & Co., Albany; Hart & Merr New York; J. H. Whitney, do.; E. J. Etting, Ph adelphia; Wm. E. Coffin & Co. Boston. 345

MACHINE WORKS OF ROGERS
Metchum & Grosvenor, Patierson, N. J. Tundersigned receive orders for the following articles manufactured by them of the most superior descition in every particular. Their works being ex-sive and the number of hands employed being lar they are embled to execute both large and small

ders with promptness and despatch, and it is a Railroad Work.

Locomotive steam engines and tenders; Driving and other locomotive wheels, axles, springs & final tires; dar wheels of cast from from a variety of page 1. wrought tires; axles of best American refine springs; boxes and bolts for cars. Cotton, Wool and Plax Machines

of all descriptions and of the most style and workmanship. Mill gearing and Mill year hydraulic and other present pro-lers; lather and tools of all the castings of all description ROGERS, KET CHU a45 Paterson, N. J., or 6

UM & GROSVENOR Wall street, N. Yo

FRENCH AND BAIRD'S PATENT SPARK ARRESTER

THOSE INTERESTED IN Railroads Railroads Railroad Director and Managers are respectfully invited to exhibite an improved Spark. Arrester recently patented by the undersigned.

Our improved Spark Arresters

Our improved Spark Arresters have been extensively used during the last year on both passenger & freight engines, and have been brought to such a state of perfection that no annoyance from sparks or dust from the chimney of engines on which they are used is experienced.

These Arresters are constructed on an entirely different principle from any heretolore offered to the public. The form is such that a rotary motion is imparted to the heated air, smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney through openings near its top, from whence they fall by their own

gal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney, through openings near its top, from whence they fall by their own gravity to the hottom of this chamber; the smoke and steam passing off at the top of the chimney, through a capacious and unobstructed passage, thus arresting the sparks without impairing the power of the engine by diminishing the draught or activity of the fire in the furnace. They are now in use on the following roads, to the managers and other officers of which we are at liberty to refer those who may desire to purchase or obtain further information in regard to their merits:

R. L. Stevens, President Camden and Amboy Railroad Company; Richard Peters, Superintual and Georgia Railroad, Augustal, Ga.; G. A. Nicolle, Superintendant Philadelphia, Reading and Poutsville Railroad, Rading, Pa.; W. E. Morris, President W. and R. Railroad Company, Wilmington, N. C.; Col. James Gadsden, President S. C. and C. Railroad Company, Charleston, S. C.; W. C. Walker, Agent Vicksburgh and Jackson Railroad, Vicksburgh, Miss. R. S. Van Rousselter, Engineer and San't Hartford and New Haven Railroad, Wilmington, Co., J. Elliott, Sup't Mortive Power Philadelphia and Wilmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Mortive Power Philadelphia and Wilmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Mortive Power Philadelphia and Wilmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Mortive Power Philadelphia and Milmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Mortive Power Philadelphia and Milmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Mortive Power Philadelphia and Milmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Mortive Power Philadelphia and Milmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Mortive Power Philadelphia, Real Railroad, Mortoe, Mich.; M. F. Chittenden, Sup't M. P. Central Railroad, Delevit, President Long Island Railroad, Brooklyn.

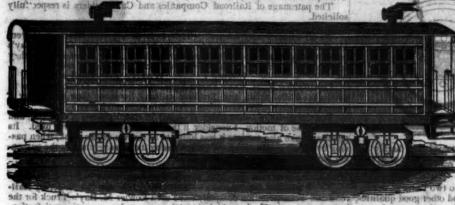
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WORKS, CAMBRIDGEPORT,

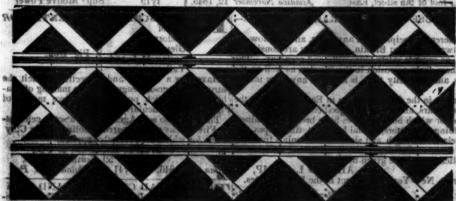


Manufacture to Order, Passenger, and Freight Cars of every description, and of the most improved pattern; also furnish Snow Ploughs and Chilled Wheels of any pattern and size. Forged Axles, Springs, Boxes and Botts for Cars at the lowest prices. It is a support of the country.

SAll orders punctually executed and forwarded to any part of the country.

Tour Works are within fifteen unitates ride from State street, Boston—Omnibuses pass every fifteen.

THE HERRON RATEWAY TRACK



has As seen stripped of the top ballasting

A GOLD MEDAL AWARDED THE INVENTOR BY THE AMERICAN INSTITUTE.

THE UNDERSIGNED RESPECTIVILE but 8 feet; the timber being more concentrated under the Rails. A block of hard wood, about 2 feet long road Companies, to some highly important improve ments the has recently made in the Herron system of the trellis for the purpose of giving an additional, Railway structure. These improvements enable which to effect a very large reduction in the quantity of Timber, and cost of construction, without impair come chafed and worn by the working, and imbeding frost, while they seeme additional features of reasts the University of the Track, or its powers of resisting frost, while they seeme additional features of reads, they can be readily replaced without any december in the Drainage and facility of making. The following is a general estimate of its cost near

Repairs.

The above cut represents the "Herron Track" as it is laid on the Philadelphia and Reading and on the Bultimore and Susquehama Ratiroads. The intersection of the sulls of the trellis are 5 feet from centra to centre, while in the new construction they are only 21 feet. This renders the string piece in necessary, thus removing the only objectionable feature found in the Track.

The result of experience has proved that all Tracks constructed with longitudinal timbers, such as much sills, and more especially, the continuous bearing string pieces retain the rain water that dalls between the Rails, which, being thus confined, settles along those timbers and accumulating in quantity flows rapidly along them on the descending grades, washing out the earth from under the timber, and frequently causing large breaches in the embanaments of the read. Whereas all water intercepted by the oblique sills of the relis, is discharged immediately into the side ditches.

In the 5 foot plan, the Track occupies a Road bed nearly 14 feet wide, while the new construction takes

Cost of one fittle including the laying of the Rail.

He has made other important improvements which will be shown in properly proportioned models that give a much better idea of the great strength of the Track than a drawing will do.

Sales of the Patent right to all the distant States will be made on liberal terms.

WROUGHT IRON TUBES

TUBULAR BOILERS. PROM I I TO GINCHES DIAMETER,

re of the same quality and of the xiens vely need in E and German, for Localera Engine Bellers. These Tubes are or 6 tacture angland, motive THOMAS PROSSER

RAILROAD IRON. THIS Company are prepared to execute the following the pattern and in point of quality to any other manufactures and Address post and ode M. HOWE Pres'ti Mr. Savage Iron

Den: 25 pdg: svorquii laraysa n ENGINEERS AND SURVEYERS INSTRUMENTS MADE BY EDMUND DRAPER Surviving partner of

No 23 Pear street, below VV a .oPhilide oh

s for taking an without the ne for Churches, Rai ANDREW MENEELY. road Depots, etc. ANDREW M West Troy, May 12, 181704 341W

Vine St. Wharf, Philadelphia.

RAILROAD TRON. THE MONTOU

Tron Company, Danville, Pall is prepare
to execute orders for the heavy Rail Bars of any
user now in use, in this country of in Europe
and Sold to hum, at \$10 = 1.7 at 15 in. =

13,000 Spikes = 2,250 lbs. at 41 cts. 104.25

Workmanship free of patent charge. 600,00

Cost of one faile including the laying of
the Rail.

TAWRENCE'S ROSENDALE HADEA

The Cement This cement is warranted equatio any manufactured in this country, and as see
pronounced superior to Trancis' Roman's

value for Aqueducts, Locas, Bridges, Flooms
all Masonry exposed to dampnies, is well moas'if sets immediately under water, and increases as
solidity for years.

For sale in lots to sait rurchasers, in tiem paper
ea barrals, by JOEIN W. LA WRENCE

148 From preserved in promptly altended to at this onice,

211



York, expressly for the manufacture of the newly patented and highly approved Railroad Truck of Mr. Fowler M. Ray, is ready to receive orders for bridding the same, from Railroad Companies and Car Builders in the United States, and elsewhere.

The above Truck has now been in the from one to two years on several roads a sufficient length of time to test its autability, and other good qualities, and to artisty those who have used it, as may be seen by reference to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck, such as additional springs in the bolser of passenger cars, making them delightful riding cars—adapting it to tenders, trucks forward of the locomotive, and fright cars. which, with its original good qualities, make it in all respects the most desirable truck now offered to the public.

Oners for the above, will, for the present be executed at the New York Screw Mill, corner 33d street and 3d avenue, (late P. Cooper's rolling mills) and at the Steam Engine Shop of T. F. Secor & Co., foot of 9th street, East

solicited.

New York, May 4, 1846.

To all whom it may concern:—This is to certify that the New Haven, Hartford and Springfield railroad co., have had in use six sets of F. M. Ray's patent trucks for the last 20 months, during which time it appears to me, they have proved to be the bes and most economical truck now in use.

[Signed,] WILLIAM Rox, Sup't of Power.

1 certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Philadelphia and Reading railroad for some time past, under a contract of the contract of the

For simplicity of construction, economy in cost, lightness of material, and streme case of motion, I consider it the best true; as have ever used. Its peculiar make also renders it less liable to be thrown of the struct, when passing over any obstruction. We intend using it extensively under the passenger and freight cars of the above road.

Reading, Pa., October 6, 1845. [Signed.] G. A. Nicott, Supt Transportation, etc., Philadelphia and Reading Railroad.

To all whom it may concern:—This is to certify that the N. Jersey Railroad and Transportation company have used Fowler M. Ray's Truck for the last seven months, during which time it has operated to our entire satisfaction. I have no hesitation in saying that it is the simplest and most economical truck now in use.

have no hesitation in saying that it is the simplest and most economical ack now in use.

[Signed,] T. L. Smyn,

Jersey City, November 4, 1845. N. Jersey Railroad and Transp. Co.

This is to certify that F. M. Ray's Putent Equalizing Railroad Truck has en in use on the Long Island railroad for the last year, under a freight car.

For simplicity of consider it equal to any truck we have in use.

Long Island Railroad Depot,

Jamaica November 12, 1845. Signed,

Jun Leacu,

Tyl9 Sup' Motive Power

LISH PATENT WIRE ROPES-FOR THE USE OF MINES, RAILWAYS, ETC. D

Those Ropes are manufactured on an entirely different principle from any other, and are now almost exclusively used in the collicries and on the railways in Great Britain, where they are considered to be greatly superior to hompen ones, or iron chains, as regards salety, durability and economy. The plan upon which they are made effectually secures them from corrosion in the interior, as well as the exterior of the rope, and gives a greater compactness and elasticity than is found in any other manufactured.

Many of these ropes have been in constant operation in the different mines in England, and on the Mack wall and other inclined planes, for three and four years, and are still in good condition.

In They have been applied to almost every purpose for which hempen ropes have been used—mines, any is made, standing rigging, window cords, lightning conductors, signal halvards, titler ropes, etc. beforence is unde to the annexed statement for the relative strength and size. Testimonials from the most eminent engineers in England can be shown as to their efficiency, and any additional information cyalred respecting the different descriptions and application will be given by

ALFRED L. KEMP,

75 Broad street, New York, sole agent in the United States.

alement of Trial made at the Woolwich Royal Dock Yard, if the Patent Wire Ropes, as com Hempen Ropes and Iron Chains of the same strength.—October, 1841.

WIRE ROPES, STYELL THE	HEMPE	ROPES.	CHAINS.	STRENGTH
Wire gauge, Circumference Weight per fathern,	Circumference	Weight per fathom.	Weight per Dian	ron.
not skience note.	incu.	LBS. OZ.	LBS. INC	
Refront Wheels Offices, Hollogorary	10 hines	noin es as enion nine sol 121 Ha	27 11.	16 134 16 101
house suitable for Win Goiler Plan Axe	Lansier L	est print (goeles	131 1	The second secon

N.B. The working load, with a perpendicular lift, may be taken at 6 cmt. for every th. weight per fath striplet that a rope weighing 5 lbs. per fathom would safely lift 3360 lbs., and so on in proportion,

The tion of Railroad Companies is particularly requested to Ellicotts' Scales, made for weighing load-care in trains, or singly, they have been the incipal railroads in the country, effectually prevents and the first to make platform scales in the to inted States; supposing that an experience of 20 at a switch, left wrong by accident or design.

The levers of our scales are made of wrought iron, all the bearers and fulgrums are made of the best cast steel, laid on blocks of granite, extending arms the pit, the upper part of the scale only being made of wood. E. Ellicott has made the largest Railroad Scale in the world, its extreme length was one hundred and twenty feet, capable of weighing ten loaded cars at a single draft. It was put on the Mine Hill and Schuylkill Haven Railroad.

We are prepared to make scales of any size to weigh from five pounds to two hundred tons. ELLICOTT & ABBOTT.

Factory, 9th street, near Coates, cor. Melon st.

Office, No. 3 North 5th street, Philadelphia, Pa.

Plane Specifications, and all information obtained and made to order, Bar Iron, Braziers' and Wi on application to the Subscriber, Inventor, and Patentee G. A. NICOLLS,

Reading, Pa. 1910

1910

New York.

THE SUBSCRIBERS, AGENTS FOR the sale of Codorus,

Codorus,
Glendon,
Spring M.) and
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ave now a supply, and respectfully solicit the
mage of persons engaged in the making of Maery, for which purpose the above makes of
dron are particularly adapted.

Solic Agents for Wa'son's celebratatron

hey are also sole Agents for Wa'son's celebrate for Bricks and prepared Knolin or Fire Clay as for which are promptly supplied.

SAM'L. KIMBER, & CO.,

59 North Wharver,

11, 1846. [194] Philadelphia, P.

Jan. 11, 1846. [1y4] Philadelphia, Palates.

TO RAILROAD COMPANIES AND MAN ufacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all sizes; English blister, cast, shear and spring steel; Juniata rods; car axles, made of double refined iron; sheet and boiler iron, cut to pattern; tiers for locomotive engines, and other railroad carriage wheels, made from common and double refined B. O. iron; the latter a very superior article. The tires are made by Messrs. Baldwin & Whitney, locomotive engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in the purchaser the expense of turning them out inside. THOMAS & EDMUND GEORGE, 245 N, E. cor. 12th and Market sts., Philad., Pa.

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TO LOCOMOTIVE AND MARINE ENgine Boiler Builders. Pascal Iron Works, Philadelphia. Welded Wrought Iron Flues, suitable for Locomotives, Marine and other Steam Engine Boilers, from 2 to 5 inches in diameter. Also, Pipes for Gas, Steam and other purposes; extra strong Tube for Hydraulic Presses; Hollow Pistons for Pumps of Steam Engines, etc. Manufacture: and for sale by

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THE SUBSCRIBER IS PREPARED TO
execute at the Trenton Iron Works, orders for
Railroad Iron of any required pattern, and warranted equal in every respect in point of quality to the
best American or imported Rails. Also on hand
and made to order, Bar Iron, Braziers' and Wire

NORRIS' LOCOMOTIVE WORKS.





ANUFACTURE their Patent 6Wheel Combined and 8 Wheel Locomotives of the following descrip

Class 1,	15 inches	Diameter o	f Cyline	der, × 20	inches	Stroke.
a 2.	14	Handle M	66	(X 24		deht train at 4 p.
. 3.	14	4	66	× 20	Section 200	temraing to Bew
4 4.	121	Harrison Hone	ti ti	× 20		Horrisiana aug
W- 5.	an prin ed li	a laborator	recoffee a	X 20	. 4	g o para sas a sa
6.	101	et	.cm. (68) 8	OF TX 18	0 0 4 8	Williams Britter,

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion.

Casings of all kinds made to order: and they call attention to their Chilled Wheels. for the Trucks of Locomotives, Tenders and Cars.

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EARNEY FIRE BRICK. F. W. BRINLEY, Manufacturer, Perth Amboy, N.J. Guaranteed equal to any, either domestic or oreign. Any shape or size made to order. Terms, mos. from delivery of brick on board. Refer to

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James P. Allaire,
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25,000 to 30,000 made weekly.

THE NEWCASTLE MANUFACTURING
The Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Bruss and Iron castings, of all kinds connected with Steamboats, Railroads, etc., Mill Gearing of every description; Cast wheels, (chilled) of any pattern and size, with Axles fitted, also with wrought tires, Springs, Boxes and bolts for Cars, Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders will be executed with promptress and despatch. Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY.

TAUROAD IRON AND LOCOMOTIVE.

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hand
A. & G. RALSTON
Mar. 20tf
4 South Front St., Philadelphia, 25tf

AP-WELDED WROUGHT IRON TUBE for Tubular Boilers, from 14 to 18 inches dia meter, and any length not exceeding 17 feet-man ofactured by the Caledonian Tube Company, Gla gow, and for sale by 41 hora 01

IRVING VAN WART, reduce Vaithiw areal Plan street, New York

JOR CUTLER, Patentee, Government, and by the principal Engineers and Steam Marine and Railway Companies in the King-

ed to the mount

SPRING STEEL FOR LOCOMOTIVES
Tenders and Cars. The Subscriber is engage; in manufacturing Spring Steel from 11 to 6 inche in width, and of any thickness required. Larges unantities are yearly furnished for railroad purposes, and wherever used, its quality has been approved of The establishment being large, can execute order with great promptitude, at reasonable prices, and the quality warranted. Address JOAN F. WINSLOW, Agest, ly

Albany Iron and Nail Werks,

THE SUBSCRIBERS ARE PREPARED T execute orders at their Phoenix Works for Re road Iron of any required pattern, equal in quantiand finish to the best imported.

ROBERT NICHOLS, Agen

Pipes. The subscribers continue to manufiture the above Pires, of all the sizes and areas required for City or Gountry use, and would in individuals or companies to examine its merits. This pipe, unlike east from and lead, imparis neith color, oxide or laste, being formed of strongly rived sheet from and evenly lined on the faside with has a thick covering externally of the same—the forming nature's own conduit of stone. The process of laying the same—the forming thoroughly encosed or both sides with cemer precludes the possibility of rust or decay, and reders the pipe truly indestructible. The prices are let than those of from or lead. We also manufacture Basons and D. Traps, for Water Closets, on a seprinciple, which we wish the public to examine 113 Fulton street, New York. 281 Mand strict Too bing usin J. BALL & CO

CONNECTION BETWEEN THE BOSTON and Lowell and the Boston and Maine Rail broads. On and after April 1st, 1847, passenger trains between the e two loads will run as follows viz. Leaving Lowell at 7, 11, 14 a.m., and 3 1-2, 4 a.m. and 5 1-2 p.m., to connect at the junction in will mington with the eastward trains—at 7 a.m. and 2 1-2 p.m. with those to Portland; at 4, 1-2 p.m. with those to Portland; at 4, 1-2 p.m. and 3 1-2 p.m., and at 11 1-4 a.m. and 6 1-2 p.m., and the junction, and at 11 1-4 a.m. and 6 1-2 p.m., and the junction in Wilming ton, for Lowell, at about 7 1-4 a.m. on arrival of the morning trains from Haverhill; at about 9 a.m., or arrival of the morning trains from Great Fairs. A about 11 3-4 a.m., on arrival of the morning trains from Haverhill. At about 7 1-4 m. on arrival of the afternoon trains from Haverhill. At about 7 1-4 m. on arrival of the afternoon trains from Haverhill. At about 7 1-4 m. on arrival of the afternoon trains from Portland WALDO HIGGINSON, Agent

PATERSON RAILROAD
Summer Arrangement.

Commencing April 20th, 1847, the cars will leav
Paterson at Sew York at Sew

ON CORD RAILROAD PASSENGER

us Railroads, run daily between
Concord and Boston, Sundays
ed, as follows, viz.

Leave Concord at 5 40 and 11 5 a.m. and 1 15 p.ms.
Leave Boston at 7 and 11 a.m. and 5 p.m.
This road runs by Nushuu and Manchester to
Concord No H. a where it connects with the Northern
railroad, extending from Concord to the mouth of
White river in Vermont, 18 miles of which road, to
Frankling is now opened, and the remainder is ra-

pidly completing gives to Central and northern New Hampshire, and to Monepelies, Burlington, sind-other towns in northern Vernont, and has a greater proportion of inilroad conveyance in those directions

in my other line. I story the mose develop-tis also the British Steam Mail Line, and the nest route from Boston to the Canadas. Name, stages connect with all parts of the road. For further information, apply at B. B. Guency Dean No. 15 Edw. Stell mand the model of the road.

All passengers language should be properly mark, i, and when valued at more than \$50, notice must given, and extra changes paid, or no loss beyond an amount will be allowed.

N. G. UPHAM, Supt.

ORWICH AND WORCESTER RAIIRoad, Summer Arrangement, Change of
Hours, Commencing on
Wednesday, April 21, 1847.

Leave Howith, at 6 at m, and 41 p. m. Leave N. G UPHAM, Supi

Accommendation Trains, daily, (exceptions and the p. m. Leave forester, at 61 a. m., and 41 p. m.

The morning Accommodation Trains from the forester, and Worcester, connect with the ins of the Boston, and Worcester and Western froads each way.

The Evening Accommodation Train from Worter connects with the 21 p.m. train from Boston. New York Train via Steamboat—Leave Norteh for Boston, every morning, except Monday, on a arrival of the stamboat from New York, stoping at Norwich and Danielsonville.

Leave Worcester for New York, upon the arrival the train from Boston, at about 61 p.m., daily, extent Sunday, stopping at Danielsonville and Norteh.

ch reight Trains daily each way, except Sunday.— ave Norwich at 7, and Worcester at 6 30 a. m ecial contracts will be made for cargoes, or large anties of freight, on application to the superinten

Fares are Less when paid for Tickels than when SI SHE HIJ W. STOWELL Supr

ONG ISLAND RAILROAD COMPANY
Summer Arrangement. On and after Monday
May 1st, trains will run as
follow. Except Sandayar follows, except Sundays:

Lave—Brooklyn at 9 12 a.m. for Farmingdele,
12 p.m. for Greenport, at 4 p.m. for Farmingdele,
Leave Farmingdele at 7 a.m for Brooklyn, 12 m.

at 3 1-4 do, do.

Leave Greenport at 8 1-2 a.m. for Brooklyn,
Leave Jamaica at 8 a.m. for Brooklyn,
Leave Jamaica at 8 a.m. for Brooklyn, at 1 p.m.
at 41 p.m do.
On Saundays, a train will leave Brooklyn for phank at 4 p.m. Leave Yaphank, on Mondays
Brooklyn at 5 1-2 a.m.
On and after May 15th, and until September 1st,
47, a train will leave Jamaica at 7 a.m. for Brooklyn at 6 p.m. for Jamaica, and will
d and receive passengers at any place between poolityn and Jamaica.

undays leave Brooklyn at 8 1-2 a.m. for gdale; leave Farmingdale at 4 p. m. for

Freight Trains—leave Brooklyn at 10 a.m. for Greenport; leave Greenport at 12 m. for Brooklyn.

Baggage crates will be in readiness at the foot of Whitehall street, to receive baggage for the several trains, 30 minutes before the hour of starting from the Brooklyn side.

The steamer "Statesman," Captain Nash, leaves Greenport for Sag Harbor on the arrival of the Accommodation train from Brooklyn.

501 DAVID S. IVES, Sup't.

AND MAINE RAILROAD
Rouse, to Portland and the East.

WINTER ARRANGEMENT Commencing October 4, 1847. PORTLAND TRAINS.

Leave Boston at 7 A.M. and 2! P.M.
Leave Portland at 7! A.M. and 3 P.M.
GREAT FALLS TRAIN.
Leave Boston at 3!
Leave Great Falls 161 A.M.

TRAINS LAW 24, 34, 64 p.m a.m., 34, 64 p

LAWRE
Leave Boston at Leave Law/ence of HAV CRI
Leave Boston at 11
Leave Haverhill at READIN

Leave Boston at 81 A.M. and 61 P.M. Leave Rending at 6-50 A.M. and 11 P.M. MEDFORD BRANCH TRAINS

Leave Boston at 7, a.m., 12 m., 21, 41, 6 p.m. Leave Medford at 7, 81, a.m., 11, 31, 5 p.m. The Depot in Boston is on Haymarket Square CHAS. MINOT, Super't.

BOSTON AND PROVIDENCE RAILroad. Passenger Summer Arrangement. On and day, April 5, 18 enger Trains will run as follo Steamboat train via Stoning , the Pas-

a.m. and 41 p.m.

Dedham trains, leave Boston at 8 a.m., 121, 31
61 and 9 p.m., Leave Dedham at 7 and 91 a.m. and
21, 51 and 8 p.m.

Stoughton trains, leave Boston at 111 a.m. and

51 p.m. Leave Stoughton at All baggage at the risk of the owners there W. RAYMOND LEE, S.

NEW YORK & HARLEM RAD ROAD CO.—Summer Arrangement. On and after Tuesday June 1st 1847 the cars will run as follows, that Berther notice. Up thairs will leave the City Hall for—Yorkville, Harlem and Marrisana at 6, 8 and 11 a.m., 2, 330, 5 and 7 p.m.
For Morrisiana, Fordham, Williams' Bridge, Tuckahoe, Hart's Corner and White Plains, 7 and 10 a.m., 4 and 5 30 p.m.
For White Plains, Pleasantville, Newcastle, Mechanicaville and Croton Falls, 7 a.m. and 4 p.m.—Freight train at 1 p.m.

reight train at 1 p.m.

Returning to New York, will leave—
Morrisiana and Harlem, 7, 8 20 and 9 a.m., 1, 3,

Morrisiana and Harlem, 7, 8 20 and 9 a.m., 1, 3, 30, 6, 6 28 and 8 p.m.
Fordham, 8 08 and 9 15 a.m., 1 20 and 6 15 p.m.
Williams Bridge, 8 and 9 08 a.m., 1 10, 6 08 p.m.
Tuckahoe, 7 38 and 2 25 p.m., 12 55 and 5 52 p.m.
White Plains, 7 10 and 8 35 a.m., 12 50, 5 35 p.m.
Pleasantville, 8 15 a.m. and 5 15 p.m.
Newcastle, 8 a.m. and 5 p.m.
Mechanicsville, 7 18 a.m. and 4 30 p.m.
Freight train will leave 32d street for Croton Falls

Preight train will leave 32d street for Croton Falls Returning, leave Croton Falls 10 ann, and 9 pm.
ON SUNDAYS, the trains will run as follower.
Leave City Hall for Croton Falls, 7 a.m., 4 pm.
Croton Falls for City Hall, 7 30 a.m., 4 30 pm.
Leave City Hall for White Plains and internediate places, 7 and 10 a.m. 4 and 5 30 pm.
White Plains for City Hall, 7 10 and 8 35 a.m., 12 30 and 5 35 pm.
Estra trains will be run to Harlem, Fordham and Williams Bridge on Sunday, when the weather is fine.
The trains to and from Croton Falls will not stop on N. York island, except at Broome at and 32d at.
A car will preceed such leave 1 and 32d at.

A car will preceed such leave 1 and 32d at.

Eare from Baltimore to Charleston, S. C., in two dies from Baltimore.

Fare from Baltimore to Charleston.

WESTERN HAILROAD. ON AND ler Monday, April 5, 1847, the pass trains will leave daily Shadays excepted, as follows:

Boston at 8 a. m. and 4 lhanv for Boston Albany at 7 1-4 a. m. a Springfield at 8 1-2 a. n Springfield at 8 1-2 a. m. m. for Albany and 3 p. m. (or Tork) for Boston. on arrival of the train from

Day line to New York pringfield.-The bay fine to New York at 7 p. m., by ler. New York at 7 p. m., by ler. New York at 6 1-4 a. m., a m., and arrives amboats Travel-Returning, leaves ives in Boston at

Boston at 4 p.

on at 8 a. m., Albany at 6 p. pringfield next

Albany and Truy—Leave — Ton at 8 a. m., springfield at 1 p. m., and arrive in Albany at 6 p. m., or, leave Boston at 4 p. m. Springfield next owning at 8 1 2, and arrive in Albany at 1 1-2 p.m. The Tray trains connect at Green lush. The trains for Buffalo leave at 7½ a m. and 7 p.m. For Northampton, Greenfield, etc.—I he trains of the Connection Biyer Railroad leave Springfield at 8 1-4 a.m., 1 and 3 p.m., and passengers proceed directly on to Brattleboro', Windsor, Bellows Falls, Walpole, Hanover, Haverhill, etc.

For Hartford,—The trains leave Springfield on the arrival of the trains from Boston.

the arrival of the trains from Boston.

The trains of Pittsfield and North Adams Railroad leave Pittsfield on the arrival of the trains from

senger Trains will run as follows:

Steamboat train via Stonington—Leaves Boston every day, except Sunday, at 5 o'clock p.m.

Accommodation Trains—leave Boston at 7 and 10 appared not exceeding the value of fifty dollars, unless by special agreement.

RNES, Sup't and Eng'r. JAME C. A. SEAD,

DERIE RAILROAD LINE TEW YOR EMUNT For passen-ch vay caily, Est at 7 o'clock, A.M. Monroe, Chester, Go-intermediate

The return trains for New York will leave Otis-the at 1, 30, A. d. and 4, 5, P. M.: Middletown at 7 A. M. and 4, 10, P. M. Goshen 1, 122, A. M. and 3, P. M.; Chesar at 7, S. A. and 5, 18, P. M.

Fare between New York and Otisville, \$1 50; ay-fare in proportion. -Leave Otisville at 51 o'clock; morn-

FOR MILK—Leave Classific at The Language of Samuel Marsh and "Henry Suydam, Jr." will leave New York (from the foot of Duane St.) at 5 o'clock, P. M. daily (ex-

No freight will be received in New York after 5 o'clock, P. M.
Freight for New York will be taken by the trains leaving Outsville at 10; o'clock, A. M.; Middletowid at 11; A. M.; Goshen at 12; P. M.; Chester at 1 o'clock, P. M., etc., etc.
For farther particulars, apply to J. F. CLARK-SON, Agent, corner of Duane and West Sts., New York, or to S. S. POST, Superintendent Transportation, Piermon.

240

BALTIMORE AND OHIO RAILROAD.
MAIN STEM: The Train carrying the Great Western Mail leaves Baltimore every morning at 71 and Cumberiand at 8 o'clock, passing Ellicott's Mills, Frederick, Harpers Ferry, Martinsburgh and Hancock, conneting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry—with the various railroad and steamboat lines between Baltimore and Philadelphia steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Brownsville and Piusburgh. Time of arrival at both Cumberland and Baltimore 51 P. M. Fare between those points of the per mitorior less distances. Faculty of the per mitorior less distances. Through the per mitorior less distances. Through the per mitorior less distances and time about 32 hours. Through the per mitorior less distances and time about 32 hours. tra train daily except Frederick at 4 P. M., dtimore at 8 A. M, \$13, to Pitts and from Frede WASHSHE'ON BRANCH.

Daily trains at 9 A. M. and 5 P. M. and 12 at night from Baltimore and at 6 A. M. and 51 P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington and the Relay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances.

LITTLE MIAMI RAILROAD COMPANY. Fall and Winter Arrangement, 1847. On and after Monday, September 20th, until further notice, a Passenger train will run as follows:

Leave Cincinnati daily at 9 A. M., for Milford, Foster's Crossing, Deerfield, Morrow, Fort Ancient, Freeport, Waynesville, Spring Valley, Xenia, Yellow Springs, and Springfield. Returning, will leave Springfield at 21 p.m. Upward train arrives at Springfield at 21 p.m. Downward train arrives at Cincinnati at 104 a.m.

Freight trains will run each way daily. Messrs. Neil, Moore & Co. are running the fol-lowing stage lines in connection with the road?

A daily line from Kenia to Columbus and Wheeling, carrying the great Eastern mail.

Daily lines from Springfield to Columbus, Zanes-ville and Wheeling. Also to Urbana and Bellefontaine

A line of Hacks runs daily in connection with

Passengers leaving for New York and Boston, arrive at Sandusky city via Urbana, Bellefontaine & the Mad River and Lake Eric railroad, in 27 hours,

and the Mansner and hours. Distance from Cincinnati to Springs and hours. Distance from Cincinnati to Springs and Market From Springseld to Bellesontaine by stage, over a good Summer road ..., 33 "From Bellesontaine to Sandusky city by railroad ..., 102 "

FARE—From Cincinnati to Lebanon ... \$1 00 "Kenia ... 1 50 "Kenia ... 1 50 "Kenia ... 1 50 "Columbus ... 4 00 "Columbus ... 4 00 "Springseld ... 2 00 " "Columbus ... 4 00 " "Sundusky city 7 00 "Sundusky city 9 "S

The Passenger trains runs in connection with Strader & Gorman's line of Mail Packets to Louis-

Tickets can be procured at the Broadway Hotel Definison House, or at the Depot of the Company

PALITIMORE AND SUSCILEMANNA CENTRAL RAILROAD-RROM SA Ratiroad.—Reduction of Faire. Morning and a nah to Macon. Distance 190 miles.

Afternoon Trains between Balti
This Road is open for the trans-

FARE. Fare to York.... Way points in proportion.

PITTSBURG, GETTYSBURG AND HARRISBURG.
Through tickets to Pittsburg via stage to Har-Through tickets to Harrisburg or Gettysburg. In-connection with the afternoon train at 31 o'clock

A horse car is run to Green Spring and Owing's Mill, arriving at the Mills at Adverse, let p.m.
Returning, leaves Owing's Mills at Adverse, let p.m.
D. C. H. BORDLEY, Sup't,
Ticket Office, 63 North st.

Trains leave Lexington for Frankfort daily, at 5 o'clock a.m., and 2 p.m.

Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fair \$125.

On Sunday but one train, 5 o'clock a.m. from Lexington, and 2 o'clock p.m. from Frankfort.

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and ma. 9 from Frankfort, other hours as above. 351y

CENTRAL AND MACON AND WEST-ern Railroads, Ga.—These Roads with the Western and Atlantic Railroad of the State of Georgia, form a continuous line from Savannah to Oothcaloga, Ga., of 371 miles, viz:

Miles.
Savannah to Macon—Central Railroad 190
Macon to Atlanta—Macon and Western 101
Atlanta to Oothcaloga—Western and Atlantic. 80
Goods will be carried from Savannah to Atlanta
and Oothcaloga, at the following rates, viz;

On Weight Goods Sugar, Cofh Weight Goods—Sugar, Cof-fee, Liquor, Bagging, Rope, Butter, Cheese, Tobacco, Leather, Hides, Cotton Yarns, Copper, Tin, Bar & Sheet Iron, Hollow Ware & Castings. Castings and Casks or boxes. Pork, Beef, Fish, Lard, Tallew, Beeswax, Mill. Gearing, Pig Iron and Grind Stones 0 50 0 621 On Measurement Goods—Box-

I nah to Macon. Distance 190 miles.

This Road is open for the transportation of Passengers and Freight. Rates of Passage, \$8 00. Freight—On weight goods generally \$60 cts. per hundred On measurement goods. 13 cts. per subject. On weight goods generally. 50 cts. per hundred. On measurement goods. 13 cts. per subic ft. On bris. wet (except molasses and oil). 80 cts. per burrel. On bris. dey (except lime). 80 cts. per burrel. On iron in pigs or bars, castings for mills, and unboxed machinery. 40 cts. per hundred. On hida and pipes of liquor, not over 120 gallons. \$500 per hid. Goods addressed to F. Winten, Agent forwarded free of commission. THOMAS PURSE. 40 Cts. hap't Transportation. THOMAS PURSE. Wilmington, N. C., in connection with trains on the Georgia, and Western and Allaquic Railroads—and by stage lines and stramers connects with the Montgomery and Western and Allaquic Railroads—and by stage lines and stramers connects with the Montgomery and Western and the Tuscumbia Railroad in N. Alabama. Fare through from Charleston to Montgomery daily. 25 50 Fare through from Charleston to Hunsville. Decatur and Tuscumbia. The South Carolina Railroad Co. engage to receive merchandize consigned to their road; and to the different stations on the Georgia and Western and Atlantic railroad; and to Montgomery, Ala., by the West Point and Montgomery Railroad. This Raid is now in operation.

THE WESTERN AND ATLANTIC Railroad.—This Road is now in operation to Oothealoga, a distance of 80 miles, and consequently (Sundays excepted) with the Georgia Railroad.

From Kingston, on this road, there is a tri-week line of stages, which leave on the arrival of the cas on Tuesday, Thursday and Saturday, for Warra ton, Huntsville, Decatur and Tuscumbia, Alabam

and Memphis, Tennessee.

On the same days, the stages leave Oothcaloga for Chattanooga, Jasper, Murirectorough, Knoxville and Nashville, Tennessee.

This is the most expeditions route from the east to

any of these places.

CHAS, F. M. GARNETT,

Chief Engineer.

Atlanta, Georgia, April 16th, 1846.

NEW YORK AND PHILADELPHIA RAIL road line—direct Via Newark New Bruns wick, Princeton, Trenton, and Bristol. (Through in six hours.) Leaving New York daily from the fool Library street.

PHUADELPHIA AND REA	Arrange	ment for	On
A Passenger Train will Philadelphia and Putsville daily,	l leave	dodays.	
The Train from Philadelphia ar	With Street, or Street, or other	Access to the second	- 101
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Passenger Depot in Philadelphia	corner	of Broad	
PHILADELPHIA, WILL BALFIMORE BAILE	OAD.	HATT.	10
Philadelphia for Baltimore 8 a Baltimore for Philadelphia 9 a Connecting with Mail Lines North			fellon
On Sundays, only the 10 P. M. The Boat Lines, via Newcastle &	f. Lines	wn R.R.	en C
Leave Philadelphia at 31 p.m. 1	No line day. Philade	on Sun- elphia &	à.
Wilmington.—Philadelphia to Wilman, 121 p.m., 1 p.m., 7 p.m., 10 mington to Philadelphia, 7 a.m., 1	p.m. mai	Wil-	
Engineer and General		endent.	NO.
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warded free of commissions. Freight payable at Iton.

Supt. of Transportation.

Square, Ga., July 15, 1817.

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